

## AMENDMENT

**Please amend the above-identified application as follows:**

### **Amendments to the Claims:**

1. (Currently Amended) A method for propagating an application wherein the application includes a plurality of components, said method comprising:

selecting a destination environment;

propagating the components from a source environment to the destination environment according to a set of rules; and

wherein the propagation of at least two of the components from the source environment to the destination environment is performed in parallel using multiple instances of a difference engine;

wherein the difference engine uses rules that are applied at different stages to determine the propagation of a component of the components, the stages include a first stage that applies a first rule if the component is deleted in the source environment, a second stage that applies a second rule if the component is deleted in the destination environment, a third stage that applies a third rule if the component is modified in the source environment, a fourth stage that applies a forth rule if the component is modified in the destination environment, a fifth stage that applies a fifth rule if the component is new in the source environment, and a sixth stage that applies a sixth rule if the component is new in the destination environment;

wherein ~~[[an]]~~ a graphical user interface is configured to allow ~~allows for the selection of a user to select~~ any of the first, second, third, fourth, fifth and sixth rule.

2. (Original) The method of claim 1 wherein:  
the application can be a web application.
3. (Original) The method of claim 1 wherein:  
the plurality of components can include at least one of: binary files, ~~J2EE~~  
(Enterprise Java) applications, ~~.Net~~ applications, Lightweight Directory Access Protocol  
(LDAP) ~~LDAP~~ information, distributed objects, libraries, configuration files,  
information in databases including database records, ~~Java Archives (JARs)~~ archives,  
XML (Extensible Markup Language) documents, and HTML (Hypertext Markup  
Language) documents.
4. (Previously Presented) The method of claim 1 wherein:  
the plurality of components is distributed on a plurality of source operating  
environments.
5. (Original) The method of claim 1 wherein:  
a rule in the set of rules can determine whether the source environment or the  
destination environment take precedence.
6. (Previously Presented) The method of claim 1, further comprising:  
providing a user interface; and  
wherein the user interface initiates the propagation.

7. (Original) The method of claim 6 wherein:  
the user interface provides a first user interface to allow a user to create one or more rules in the set of rules.
8. (Original) The method of claim 6 wherein:  
the user interface provides a first user interface to allow a user to preview the changes that will take place in the destination environment.
9. (Original) The method of claim 1, further comprising:  
providing a process interface to allow a process to initiate the propagation.
10. (Original) The method of claim 1 wherein:  
the source and/or destination environment can include a plurality of computing devices.
11. (Currently Amended) A computer-implemented system for propagating an application wherein the application includes a plurality of components, said system comprising:  
~~a process interface operable to accept propagation requests;~~  
a difference engine operable to propagate the components from a source environment to a destination environment according to a set of rules;

~~threading model~~ a component operable to instantiate instances of the difference engine; and

wherein the propagation of at least two of the components from the source environment to the destination environment is performed in parallel using multiple instances of the difference engine;

wherein the difference engine uses rules that are applied at different stages to determine the propagation of a component of the components, the stages include a first stage that applies a first rule if the component is deleted in the source environment, a second stage that applies a second rule if the component is deleted in the destination environment, a third stage that applies a third rule if the component is modified in the source environment, a fourth stage that applies a forth rule if the component is modified in the destination environment, a fifth stage that applies a fifth rule if the component is new in the source environment, and a sixth stage that applies a sixth rule if the component is new in the destination environment;

wherein ~~[[an]]~~ a graphical user interface ~~allows for the selection of~~ is configured to allow a user to select any of the first, second, third, fourth, fifth and sixth rule.

12. (Canceled)

13. (Previously Presented) The computer-implemented system of claim 11 wherein:  
the application can be a web application.

14. (Previously Presented) The computer-implemented system of claim 11 wherein:

the plurality of components can include at least one of: binary files, ~~J2EE~~ (Enterprise Java) applications, ~~.Net applications~~, Lightweight Directory Access Protocol (LDAP) ~~LDAP~~ information, distributed objects, libraries, configuration files, information in databases including database records, ~~Java Archives (JARs)~~ archives, XML (Extensible Markup Language) documents, and HTML (Hypertext Markup Language) documents.

15. (Previously Presented) The computer-implemented system of claim 11 wherein:  
the plurality of components can be distributed on a plurality of source operating environments.

16. (Previously Presented) The computer-implemented system of claim 11 wherein:  
a rule in the set of rules can determine whether the source environment or the destination environment take precedence.

17. (Previously Presented) The computer-implemented system of claim 11, further comprising:  
a user interface; and  
wherein the user interface initiates the propagation.

18. (Previously Presented) The computer-implemented system of claim 17 wherein:  
the user interface provides a first user interface to allow a user to create one or more rules in the set of rules.

19. (Previously Presented) The computer-implemented system of claim 17 wherein:  
the user interface provides a first user interface to allow a user to preview the  
changes that will take place in the destination environment.

20. (Previously Presented) The computer-implemented system of claim 17 wherein:  
the source and/or destination environment can include a plurality of computing  
devices.

21. (Currently Amended) A machine readable medium having instructions stored  
thereon that when executed by a processor cause a system to:  
select a destination environment;  
propagate a plurality components of an application from a source environment to  
the destination environment according to a set of rules; and  
wherein the propagation of at least two of the components from the source  
environment to the destination environment is performed in parallel using multiple  
instances of a difference engine;  
wherein the difference engine uses rules that are applied at different stages to  
determine the propagation of a component of the components, the stages include a first  
stage that applies a first rule if the component is deleted in the source environment, a  
second stage that applies a second rule if the component is deleted in the destination  
environment, a third stage that applies a third rule if the component is modified in the  
source environment, a fourth stage that applies a forth rule if the component is modified

in the destination environment, a fifth stage that applies a fifth rule if the component is new in the source environment, and a sixth stage that applies a sixth rule if the component is new in the destination environment;

wherein [[an]] a graphical user interface allows for the selection of is configured to allow a user to select any of the first, second, third, fourth, fifth and sixth rule.

22. (Original) The machine readable medium of claim 21 wherein:

the application can be a web application.

23. (Original) The machine readable medium of claim 21 wherein:

the plurality of components can include at least one of: binary files, ~~J2EE~~ (Enterprise Java) applications, ~~Net~~ applications, Lightweight Directory Access Protocol (LDAP) ~~LDAP~~ information, distributed objects, libraries, configuration files, information in databases including database records, Java Archives (JARs) archives, XML (Extensible Markup Language) documents, and HTML (Hypertext Markup Language) documents.

24. (Original) The machine readable medium of claim 21 wherein:

the plurality of components can be distributed on a plurality of source operating environments.

25. (Original) The machine readable medium of claim 21 wherein:

a rule in the set of rules can determine whether the source environment or the destination environment take precedence.

26. (Previously Presented) The machine readable medium of claim 21, further comprising instructions that when executed cause the system to:

provide a user interface; and

wherein the user interface initiates the propagation.

27. (Original) The machine readable medium of claim 26 wherein:

the user interface provides a first user interface to allow a user to create one or more rules in the set of rules.

28. (Original) The machine readable medium of claim 26 wherein:

the user interface provides a first user interface to allow a user to preview the changes that will take place in the destination environment.

29. (Original) The machine readable medium of claim 21, further comprising instructions that when executed cause the system to:

provide a process interface to allow a process to initiate the propagation.

30. (Original) The machine readable medium of claim 21 wherein:

the source and/or destination environment can include a plurality of computing devices.



31. (Previously Presented) The method of claim 1, wherein:

the first rule specifies whether the difference engine should keep the component in the destination environment or to remove it.

32. (Previously Presented) The method of claim 1, wherein:

the second rule specifies whether the difference engine should copy the component to the destination environment.

33. (Previously Presented) The method of claim 1, wherein:

the third rule specifies whether the difference engine should overwrite the component in the destination environment with the component from the source environment.

34. (Previously Presented) The method of claim 1, wherein:

the fourth rule specifies whether the difference engine should overwrite the component in the destination environment with the component from the source environment.

35. (Previously Presented) The method of claim 1, wherein:

the fifth rule specifies whether the difference engine should copy the new component to the destination environment.

36. (Previously Presented) The method of claim 1, wherein:

the sixth rule specifies whether the difference engine should remove the new component from the destination environment.

37. (Previously Presented) The method of claim 1, wherein:

the first rule specifies whether the difference engine should keep the component in the destination environment or to remove it;

the second rule specifies whether the difference engine should copy the component to the destination environment;

the third rule specifies whether the difference engine should overwrite the component in the destination environment with the component from the source environment;

the fourth rule specifies whether the difference engine should overwrite the component in the destination environment with the component from the source environment;

the fifth rule specifies whether the difference engine should copy the new component to the destination environment; and

the sixth rule specifies whether the difference engine should remove the new component from the destination environment.

38. (Previously Presented) The method of claim 1, wherein:

at least one of the first, second, third, fourth, fifth and sixth rules indicate whether to present a display to a user for a decision.